

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009716 A3

(51) International Patent Classification⁷: **B29C 43/36**,
43/42, 31/04, 43/08, 43/34, 51/08

(21) International Application Number:
PCT/ZA2004/000082

(22) International Filing Date: 23 July 2004 (23.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03/5913 31 July 2003 (31.07.2003) ZA
03/6145 8 August 2003 (08.08.2003) ZA
03/6624 22 August 2003 (22.08.2003) ZA

(71) Applicant and
(72) Inventor: **HUMAN, Jan, Petrus** [ZA/ZA]; 15 Lobelia
Street, 7130 Somersset West (ZA).

(74) Agent: **BACON, Brian**; Brian Bacon & Associates Inc.,
2nd floor, Mariendahl House, Newlands on Main, Main
Road, 7700 Newlands (ZA).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

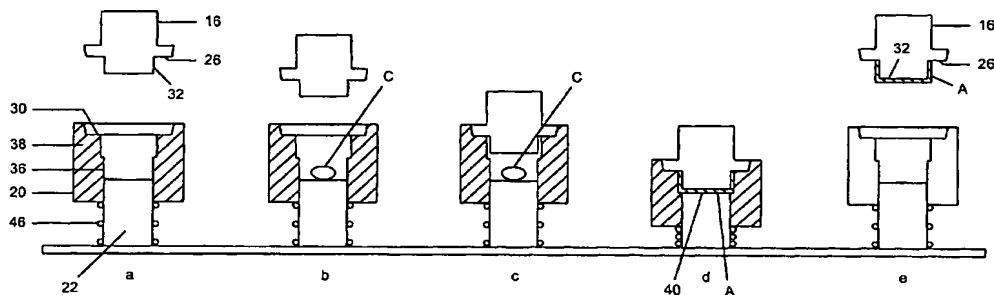
Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
2 June 2005

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: METHOD AND APPARATUS FOR COMPRESSION MOULDING CLOSURE CAPS



(57) Abstract: A method of moulding is disclosed which comprises opening a mould by separating one mould component (16) from another mould component (18) to provide a space which opens upwardly. A lower part of the space is in the form of a well (W). A charge of mouldable material is fed into the space from above so that the charge falls into the well. The mould is closed by displacing the mould components (16, 18) into contact with one another thereby to define a closed moulding cavity which is extended downwardly by the well. The volume of the well is then reduced by displacing a plunger (22) which bounds the bottom of the well relatively to the mould components thereby to displace mouldable material from the well into the moulding cavity and fill said moulding cavity.

WO 2005/009716 A3